

the possibilities of noninfectious disease targets for vaccine research, such as autoimmune diseases. Moreover, the potential for eradication, sustainable control with therapeutics or other intervention strategies, and the impact of vaccine-associated adverse events are also considered.

The panel acknowledged and recognized the relevance of these criteria and endorsed the following specific priorities for vaccine research:

- Improvement of pertussis and measles vaccines;
- Inclusion of combination vaccine development and other goals of the CVI;
- Development of vaccines to prevent respiratory and enteric diseases of childhood;
- Development of vaccines to prevent sexually transmitted diseases;
- Development of new approaches for vaccine delivery, including oral vaccines;
- Support of research to assure the safety of vaccines; and
- Development of vaccines for emerging and reemerging infectious diseases such as malaria, dengue, and influenza.

**Research plans for FY 1993 and FY 1994.** The expansion of immunization activities includes proposals for additional funding of research activities in both FY 1993 and FY 1994. In FY 1993, additional resources for vaccine research (\$4.2 million) were proposed as part of the economic stimulus legislation. For FY 1994, an additional \$28 million is proposed in the President's budget for vaccine research. Accordingly, a proposal was outlined to the panel for using these additional resources.

The projects selected for FY 1993 reflect the program priorities identified above as well as the potential for immediate implementation. The panel recognized the importance of these criteria and endorsed these projects as significant priorities reflecting a considerable enhancement of the vaccine program.

In contrast, the proposed plan for FY 1994 includes a variety of initiatives that cross the developmental stream for vaccines, including specific projects on pathogenesis, immunology, preclinical and clinical testing, field evaluation, and infrastructure needs. As requested by the Public Health Service, this plan focuses on three areas defined as priorities for these resources:

- Children's vaccines;
- Vaccine safety; and
- Vaccines for emerging infectious diseases.

Discussion of the FY 1994 proposal revealed that these initiatives are intended to enhance the existing program by expanding scientific advances or